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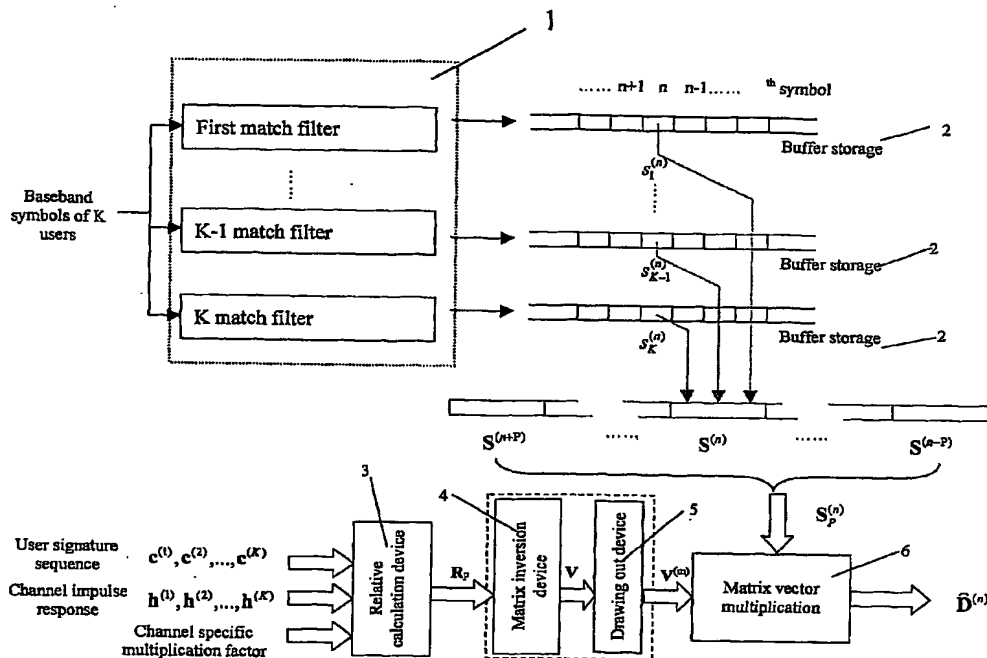
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02160465.7 30 December 2002 (30.12.2002) CN(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL];  
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LIANG, Jingxin** [CN/CN]; Philips Electronics China, 21/F Kerry Office Building 218 Tian Mu Xi Road, 200070 Shanghai (CN).YIN, Xiaojun [CN/CN]; Philips Electronics China, 21/F Kerry Office Building 218 Tian Mu Xi Road, 200070 Shanghai (CN). **ZHANG, Zhiyu** [CN/CN]; Philips Electronics China, 21/F Kerry Office Building 218 Tian Mu Xi Road, 200070 Shanghai (CN).(74) Common Representative: **KONINKLIJKE PHILIPS ELECTRONICS N.V.**; c/o van der Veer, Johannis, L., Prof. Holstlaan, 6, NL-5656AA Eindhoven (NL).(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

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(54) Title: METHOD AND DEVICE FOR MULTI-USER DETECTION WITH SIMPLIFIED DE-CORRELATION IN A CDMA SYSTEM



(57) **Abstract:** A simplified de-correlation method in CDMA multi-user detection comprises: a. receive wireless symbols  $S$ ; b. obtain a channel correlation matrix  $R$ , take a part from  $R$  to get a partial correlation matrix  $R_p$ ; c. do inversion operation to the partial correlation matrix  $R_p$ , then obtain matrix  $V^{(m)}$ ; d. recover original data symbols  $D$  from received symbols  $S$  by  $V^{(m)}$  that the location of original data symbols  $D$  corresponds to.

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